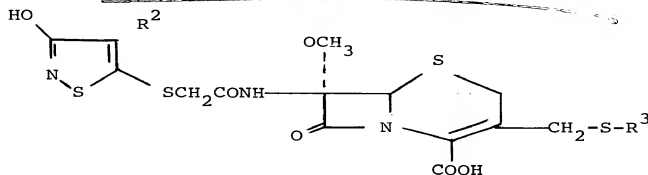


and naphthyl lower alkyl esters of said carboxyl group and carbamoyl, carbazoyl, and cyano groups; R^2 represents a hydrogen atom, a lower alkyl group, a lower alkoxy group, $R^4S(O)_n$ group wherein R^4 represents a lower alkyl group and n represents 0, 1 or 2, a lower alkanoyl group, [an aryl group, an aroyl group, a carboxyl group or the functional derivative radical thereof selected from the group consisting of a carboxylic acid lower alkyl ester radical carboxylic acid aralkyl ester radical, carbamoyl, carbazoyl and cyano groups], a phenyl group, a naphthyl group, a benzoyl group, a naphthoyl group, a R^1 group, a lower alkenyl group, a sulfamoyl group, [or a heterocyclic radical] a pyridyl group or a thiadiazoyl group; and R^3 represents a lower alkyl-substituted tetrazolyl group or a lower alkyl-substituted thiadiazolyl group and the pharmaceutically acceptable salts thereof.

6 Claim N. (twice amended) A 7 β -(3-Hydroxy-4-substituted isothiazol-5-yl) thioacetamido-7 α -methoxy-3-heterocyclic thiomethyl- Δ^3 -cephem-4-carboxylic acid represented by the formula:



wherein R^2 represents a hydrogen atom, a lower alkyl group, a lower alkoxy group, $R^4S(O)_n$ group wherein R^4 represents a lower alkyl group and n represents 0, 1 or 2, a lower alkanoyl group, [an aryl group, an aroyl] a phenyl group, a naphthyl group, benzoyl group, a naphthoyl group, a carboxyl group or [the functional] a derivative [radical] thereof selected from the